## A DELAY CIRCUIT THAT SCALES WITH CLOCK CYCLE TIME

## ABSTRACT OF THE DISCLOSURE

A circuit having a process, voltage, and temperature (PVT) invariant delay

element is disclosed. In one embodiment, the present invention includes a first and second operational transconductance amplifier (OTA), a first and second switched capacitor driven by a clock, and a first and second clock-controlled switch. In addition, the present invention includes a trip inverter, a delay inverter, and a plurality of transistors. In so coupling the first and second OTA, the first and second switched

capacitor, the first and second clock-controlled switch, the trip inverter, the delay inverter, and the plurality of transistors, a circuit having a PVT invariant delay element is provided.